HSNHG-000C(323)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	1	13

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

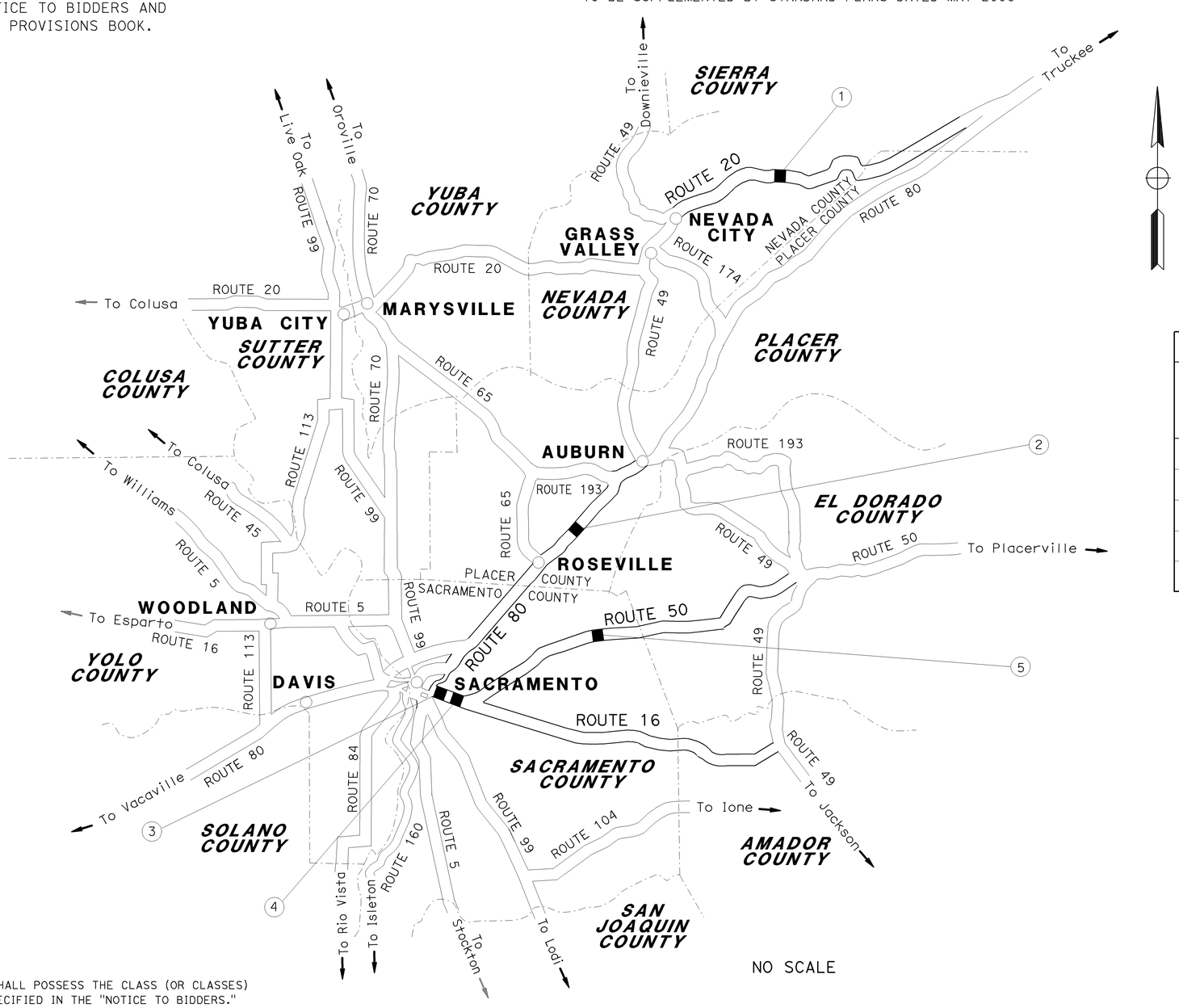
IN NEVADA, PLACER, AND SACRAMENTO COUNTIES AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-6	CONSTRUCTION DETAILS
7	CONSTRUCTION AREA SIGNS
8	PAVEMENT DELINEATION QUANTITIES
9	SUMMARY OF QUANTITIES
10-13	REVISED STANDARD PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.



NO SCALE

LOCATIONS OF CONSTRUCTION				
No.	COUNTY	ROUTE	PM	DESCRIPTION
1	Nev	20	30.5	~13 MILES EAST OF NEVADA CITY (NEAR WHITE CLOUD CAMPGROUND)
2	Pla	80	8.9	WB ON RAMP FROM HORSESHOE BAR Rd
3	Sac	50	R0.5	WB ON RAMP FROM STOCKTON Blvd
4	Sac	50	R2.7	WB ON RAMP FROM NB 65th St
5	Sac	50	17.0	WB ON RAMP FROM FOLSOM Blvd

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

PROJECT MANAGER NAJED DAKAK

DESIGN ENGINEER JOSEPH W. HORTON

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 7-5-10

DEANN S. SPANGLER No. 69207 Exp. 6-30-12 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

July 5, 2010
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	03-1F1004
PROJECT ID	0300001098

LAST REVISION 07-05-10 DATE PLOTTED => 11-AUG-2010 TIME PLOTTED => 14:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	2	13

REGISTERED CIVIL ENGINEER 7-5-10 DATE

7-5-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DEANN S. SPANGLER No. 69207 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR COMPLETE R/W DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. HFST TO BE APPLIED BETWEEN CENTERLINE AND EDGELINE STRIPES.
3. COVER CENTERLINE AND EDGELINE STRIPES TO PROTECT THEM FROM OVER SPLASH OF HFST MATERIALS.

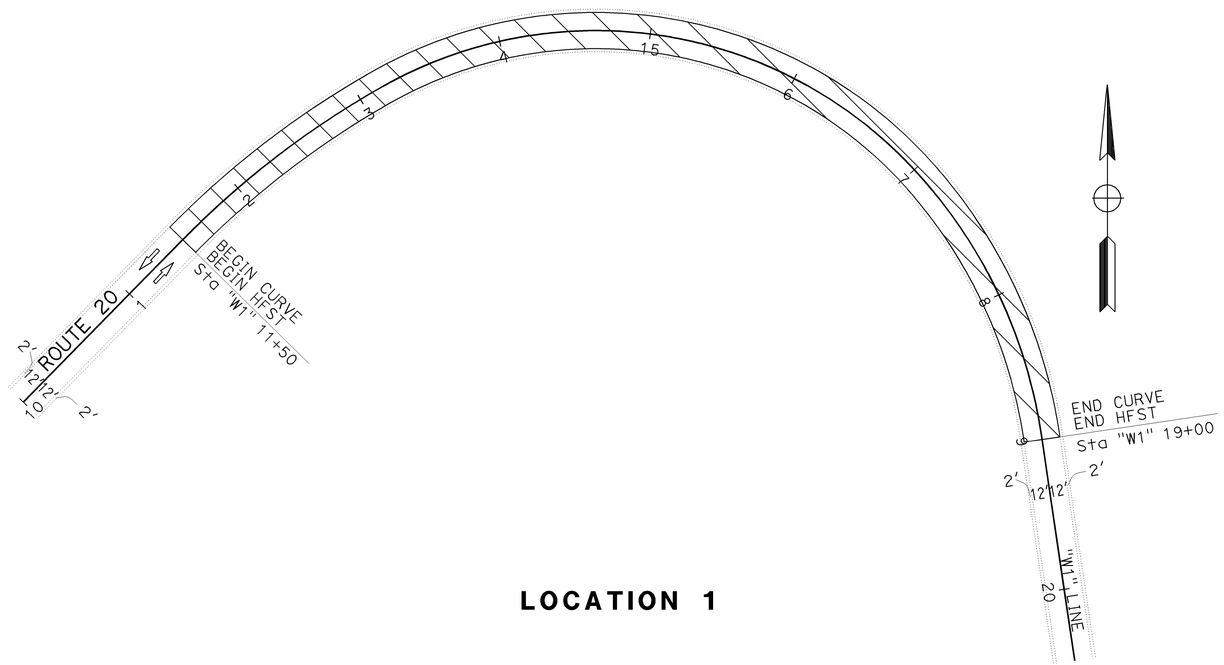
LEGEND

THIN HIGH FRICTION SURFACE TREATMENT

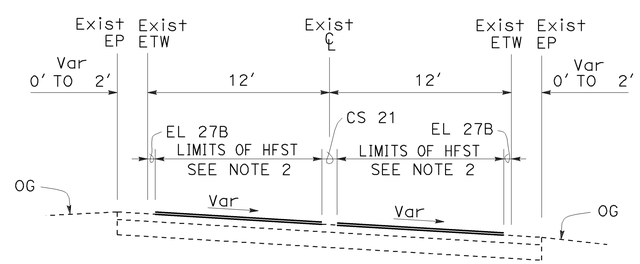
DIRECTION OF TRAVEL

ABBREVIATIONS

HFST	THIN HIGH FRICTION SURFACE TREATMENT
CS 21	Exist CENTERLINE STRIPE (Detail 21)
EL 27B	Exist EDGELINE STRIPE (Detail 27B)



LOCATION 1



TYPICAL SECTION

LOCATION 1

CONSTRUCTION DETAILS

NO SCALE

C-1

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

TRAFFIC

FUNCTIONAL SUPERVISOR: JOSEPH W. HORTON

CALCULATED-DESIGNED BY: DEANN SPANGLER

CHECKED BY: STEPHEN WRIGHT

REVISED BY

DATE REVISED

LAST REVISION 07-05-10

DATE PLOTTED => 11-AUG-2010

TIME PLOTTED => 13:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	3	13

REGISTERED CIVIL ENGINEER 7-5-10 DATE

7-5-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DEANN S. SPANGLER No. 69207 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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NOTES:

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2. HFST TO BE APPLIED BETWEEN EDGELINE/CHANNELIZING STRIPES.
3. COVER EXISTING EDGELINE AND CHANNELIZING STRIPES TO PROTECT THEM FROM OVER SPLASH OF HFST MATERIALS.

LEGEND

THIN HIGH FRICTION SURFACE TREATMENT

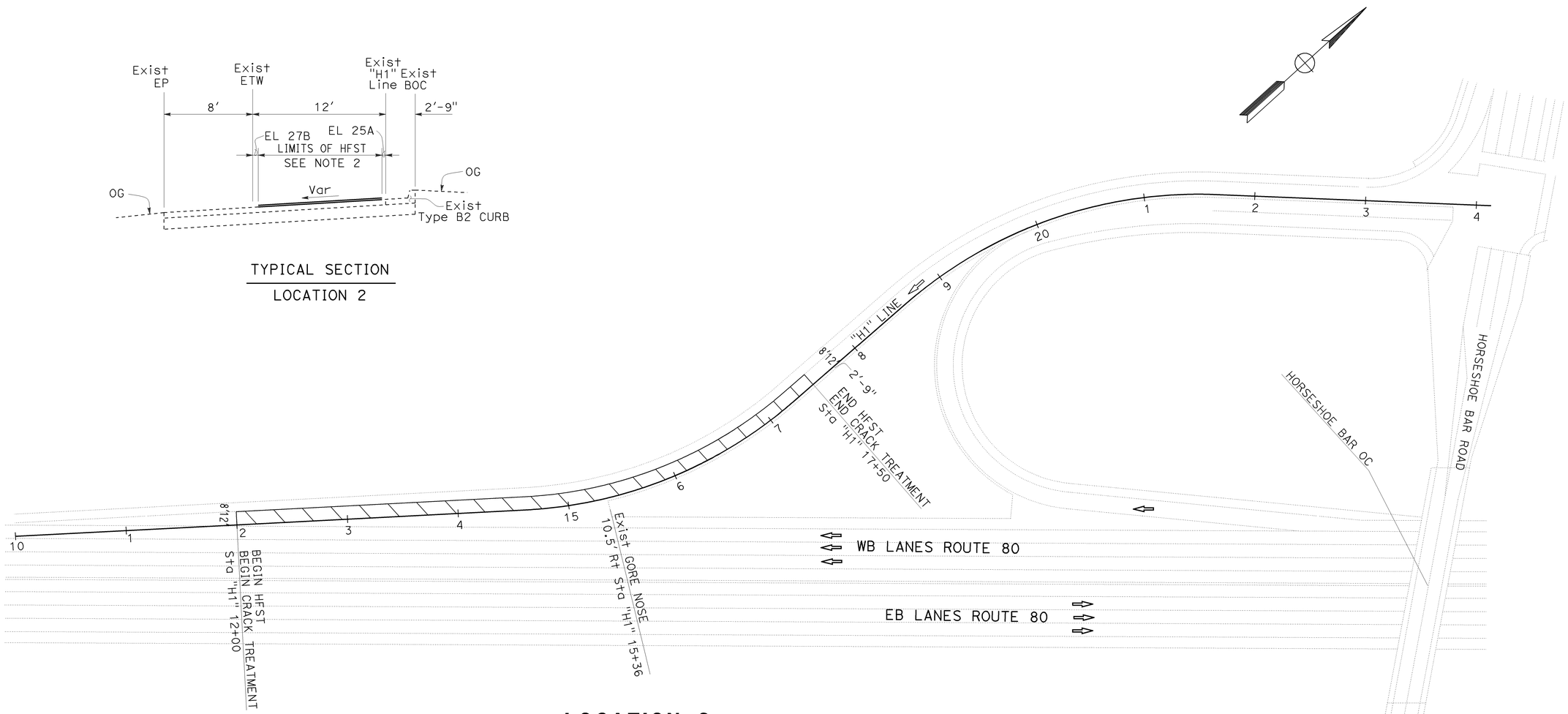
DIRECTION OF TRAVEL

ABBREVIATIONS

BOC	BACK OF CURB
HFST	THIN HIGH FRICTION SURFACE TREATMENT
EL 25A	Exist EDGELINE STRIPE (Detail 25A OR 36A)
EL 27B	Exist EDGELINE STRIPE (Detail 27B)

TYPICAL SECTION

LOCATION 2



LOCATION 2

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

TRAFFIC

FUNCTIONAL SUPERVISOR: JOSEPH W. HORTON

CALCULATED-DESIGNED BY: DEANN SPANGLER

CHECKED BY: STEPHEN WRIGHT

REVISED BY

DATE REVISED

LAST REVISION 07-05-10

DATE PLOTTED => 11-AUG-2010

TIME PLOTTED => 13:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	4	13

REGISTERED CIVIL ENGINEER 7-5-10 DATE

7-5-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DEANN S. SPANGLER No. 69207 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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2. HFST TO BE APPLIED BETWEEN EDGELINE/CHANNELIZING STRIPES.
3. COVER EXISTING EDGELINE AND CHANNELIZING STRIPES TO PROTECT THEM FROM OVER SPLASH OF HFST MATERIALS.

LEGEND

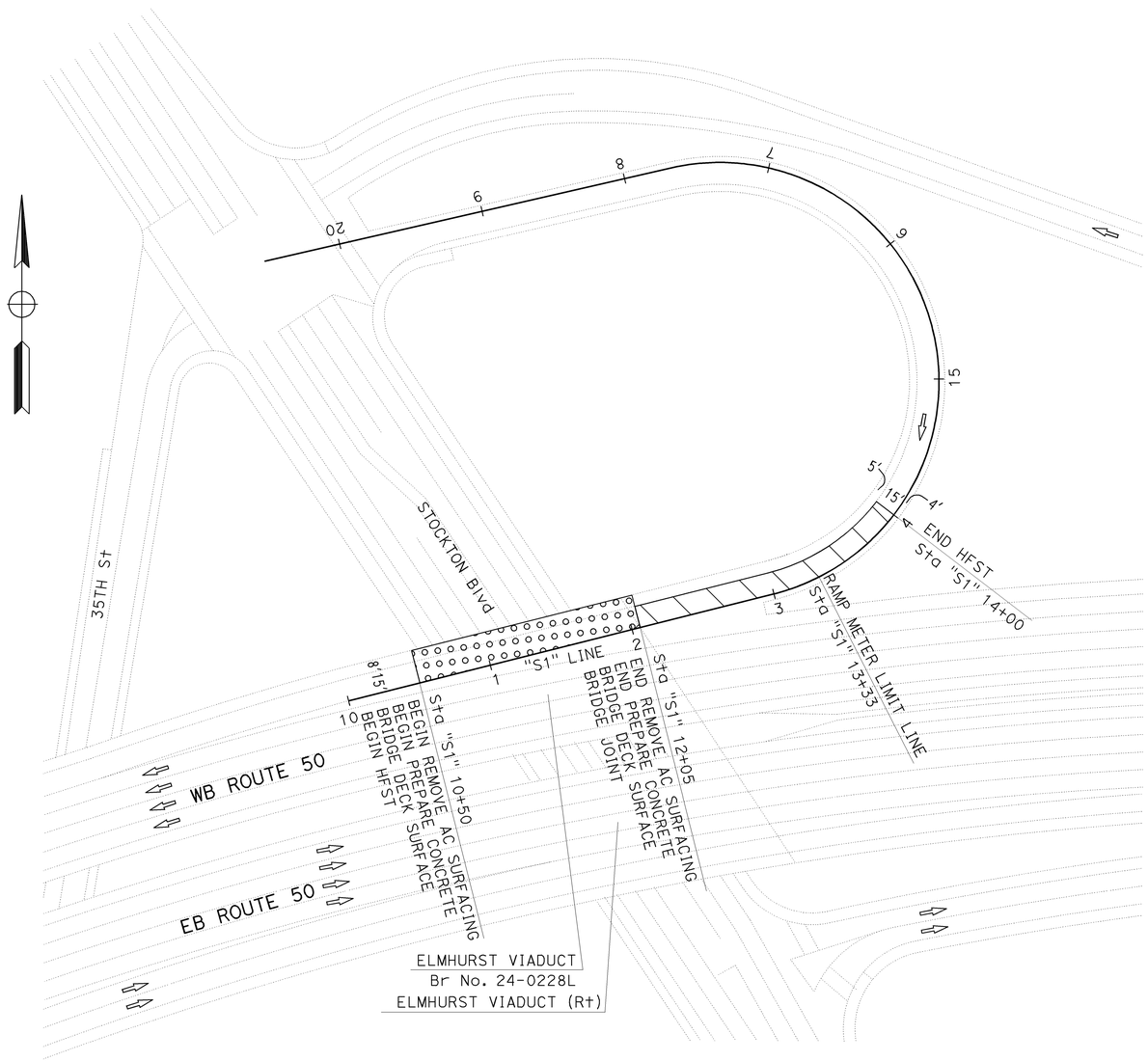
THIN HIGH FRICTION SURFACE TREATMENT

REMOVE AC SURFACING
THIN HIGH FRICTION SURFACE TREATMENT

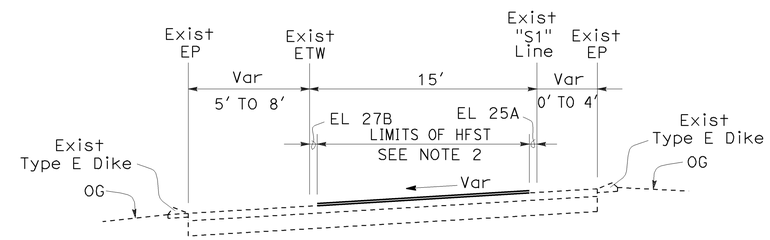
DIRECTION OF TRAVEL

ABBREVIATIONS

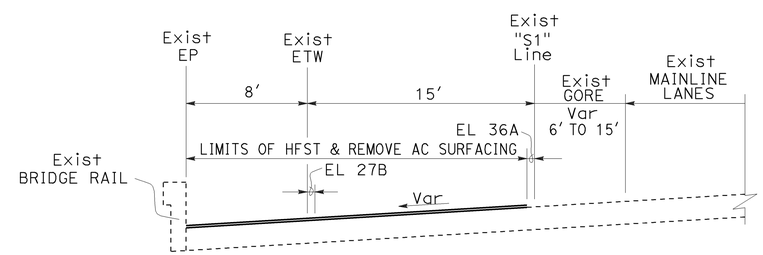
HFST	THIN HIGH FRICTION SURFACE TREATMENT
EL 25A	Exist EDGELINE STRIPE (Detail 25A)
EL 27B	Exist EDGELINE STRIPE (Detail 27B)
CL 36A	Exist CHANNELIZING STRIPE (Detail 36A)



LOCATION 3



Sta "S1" 12+05 to 14+00



Sta "S1" 10+50 to 12+05

TYPICAL SECTIONS

LOCATION 3

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: JOSEPH W. HORTON
CALCULATED-DESIGNED BY: DEANN SPANGLER
CHECKED BY: STEPHEN WRIGHT
REVISED BY
DATE REVISED

LAST REVISION 07-05-10
DATE PLOTTED => 11-AUG-2010
TIME PLOTTED => 13:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	5	13

REGISTERED CIVIL ENGINEER 7-5-10 DATE

7-5-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DEANN S. SPANGLER
No. 69207
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. HFST TO BE APPLIED BETWEEN EDGELINE/CHANNELIZING STRIPES.
3. COVER EXISTING EDGELINE AND CHANNELIZING STRIPES TO PROTECT THEM FROM OVER SPLASH OF HFST MATERIALS.

LEGEND

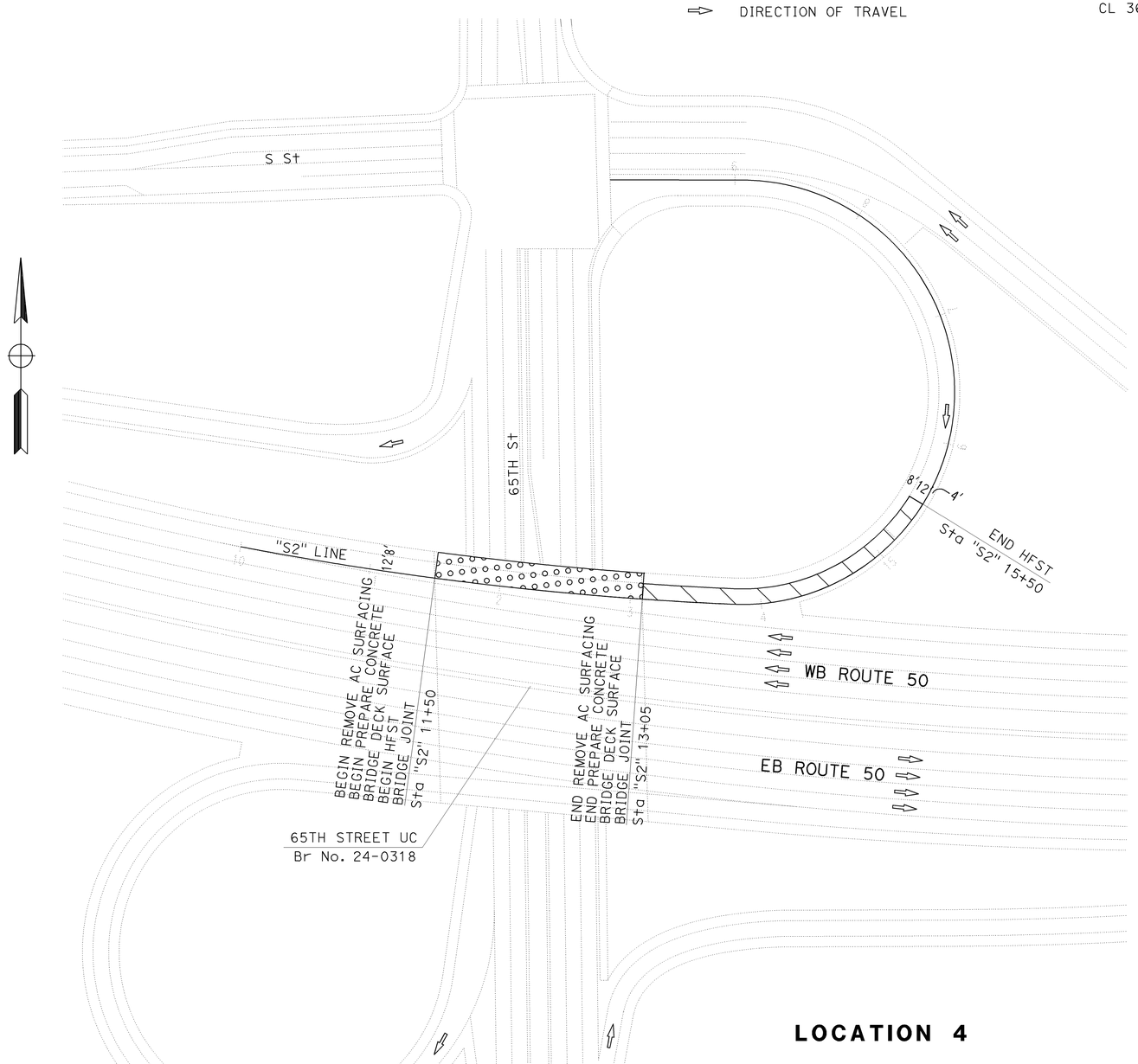
THIN HIGH FRICTION SURFACE TREATMENT

REMOVE AC SURFACING
THIN HIGH FRICTION SURFACE TREATMENT

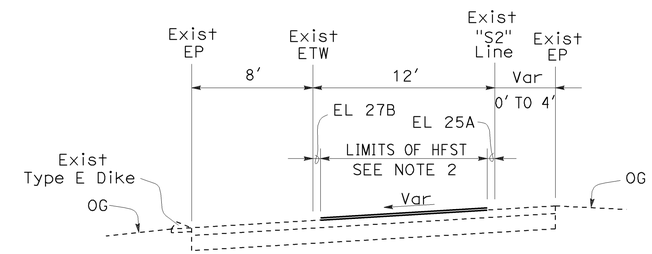
DIRECTION OF TRAVEL

ABBREVIATIONS

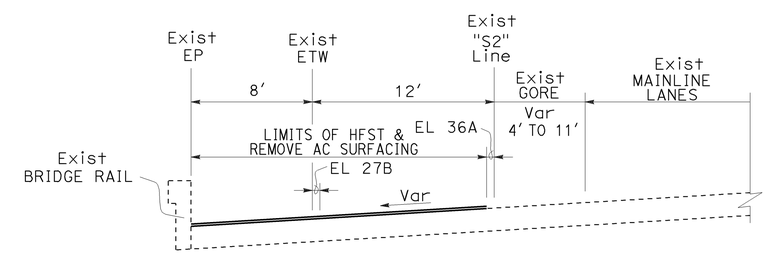
HFST	THIN HIGH FRICTION SURFACE TREATMENT
EL 25A	Exist EDGELINE STRIPE (Detail 25A)
EL 27B	Exist EDGELINE STRIPE (Detail 27B)
CL 36A	Exist CHANNELIZING STRIPE (Detail 36A)



LOCATION 4



Sta "S2" 13+05 to 15+50



Sta "S2" 11+50 to 13+05

TYPICAL SECTIONS

LOCATION 4

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: JOSEPH W. HORTON
CALCULATED-DESIGNED BY: DEANN SPANGLER
CHECKED BY: STEPHEN WRIGHT
REVISED BY
DATE REVISED

LAST REVISION 07-05-10
DATE PLOTTED => 11-AUG-2010
TIME PLOTTED => 13:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	6	13

REGISTERED CIVIL ENGINEER 7-5-10 DATE

7-5-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DEANN S. SPANGLER No. 69207 Exp 6-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. HFST TO BE APPLIED BETWEEN EDGELINE, CHANNELIZING, AND LANELINE STRIPES.
3. COVER EXISTING EDGELINE, CHANNELIZING, AND LANELINE STRIPES TO PROTECT THEM FROM OVER SPLASH OF HFST MATERIALS.

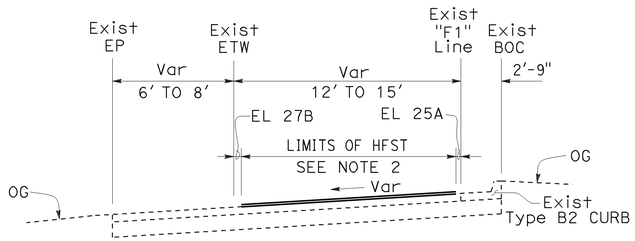
LEGEND

THIN HIGH FRICTION SURFACE TREATMENT (TWO LAYERS)

DIRECTION OF TRAVEL

ABBREVIATIONS

BOC	BACK OF CURB
HFST	THIN HIGH FRICTION SURFACE TREATMENT
LL 9	Exist LANELINE STRIPE (Detail 9)
EL 25A	Exist EDGELINE STRIPE (Detail 25A)
EL 27B	Exist EDGELINE STRIPE (Detail 27B)
CL 38	Exist CHANNELIZING STRIPE (Detail 36A OR 38)

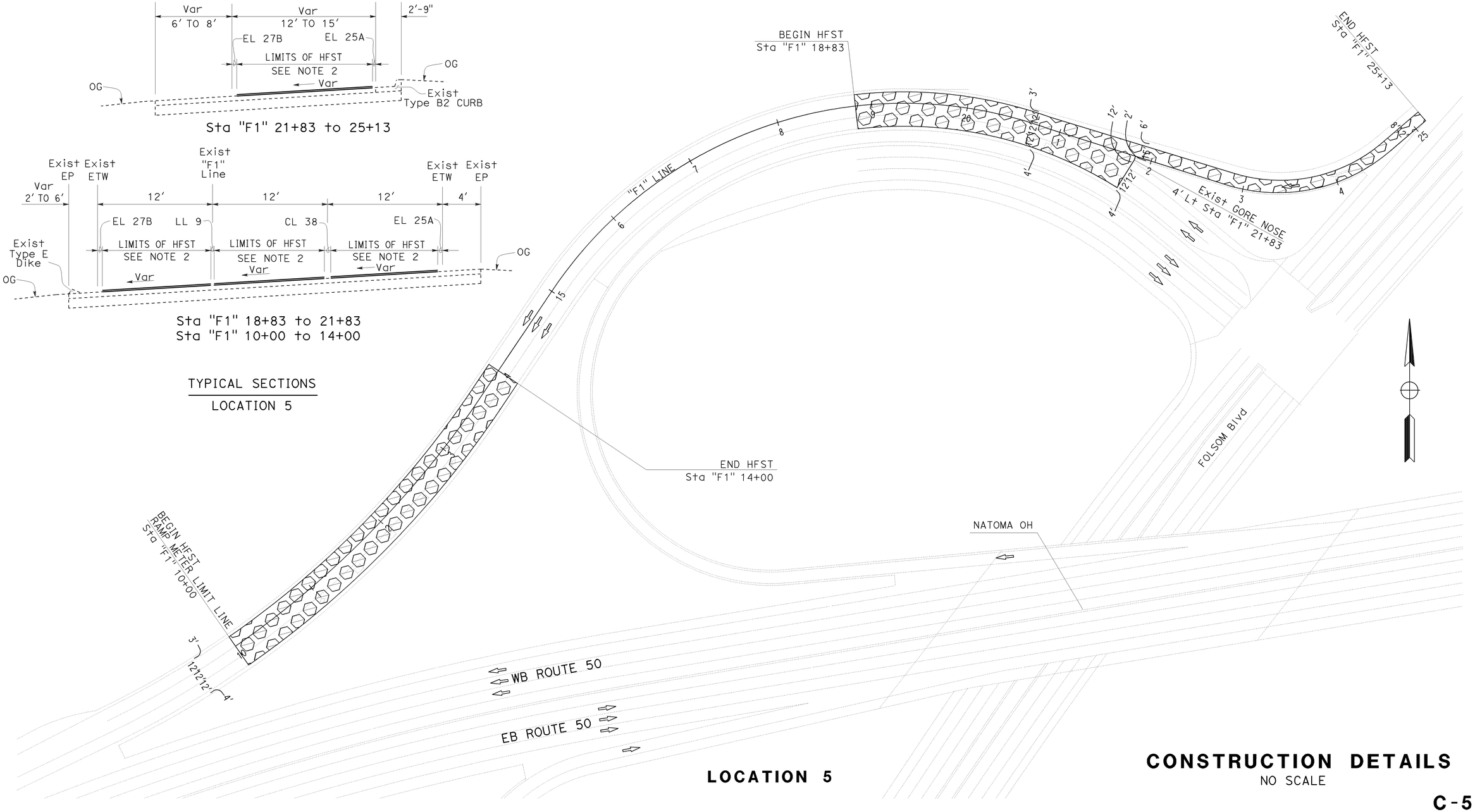


Sta "F1" 21+83 to 25+13

Sta "F1" 18+83 to 21+83
Sta "F1" 10+00 to 14+00

TYPICAL SECTIONS

LOCATION 5



LOCATION 5

CONSTRUCTION DETAILS
NO SCALE

C-5

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: JOSEPH W. HORTON
CALCULATED-DESIGNED BY: DEANN SPANGLER
CHECKED BY: STEPHEN WRIGHT
REVISED BY
DATE REVISED

LAST REVISION 07-05-10
DATE PLOTTED => 11-AUG-2010
TIME PLOTTED => 13:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	7	13

REGISTERED CIVIL ENGINEER 7-5-10 DATE

7-5-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DEANN S. SPANGLER No. 69207 Exp. 6-30-10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
(A)	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	2
(B)	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	2

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

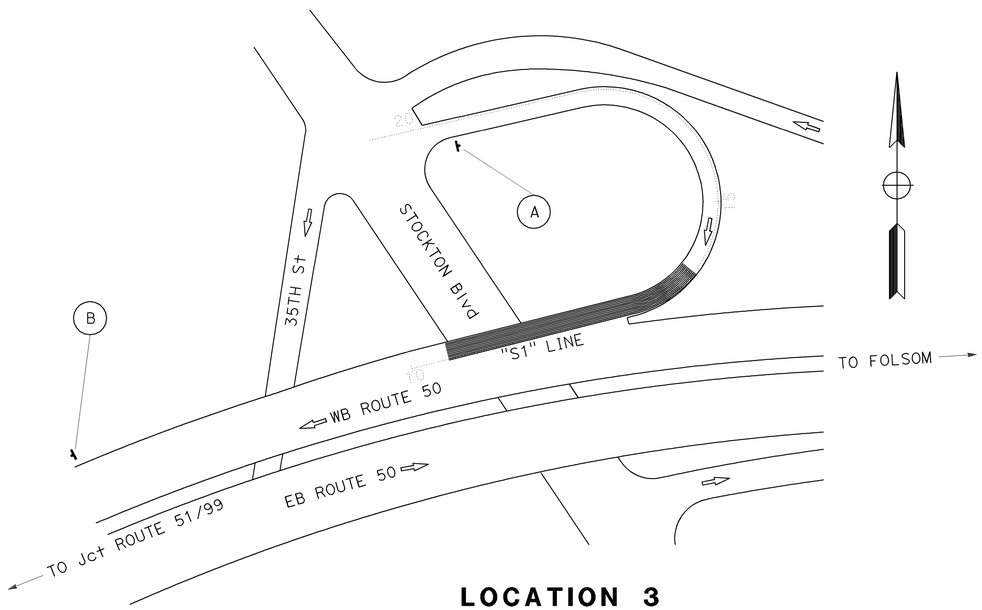
LEGEND

(X) CONSTRUCTION AREA SIGN LETTER

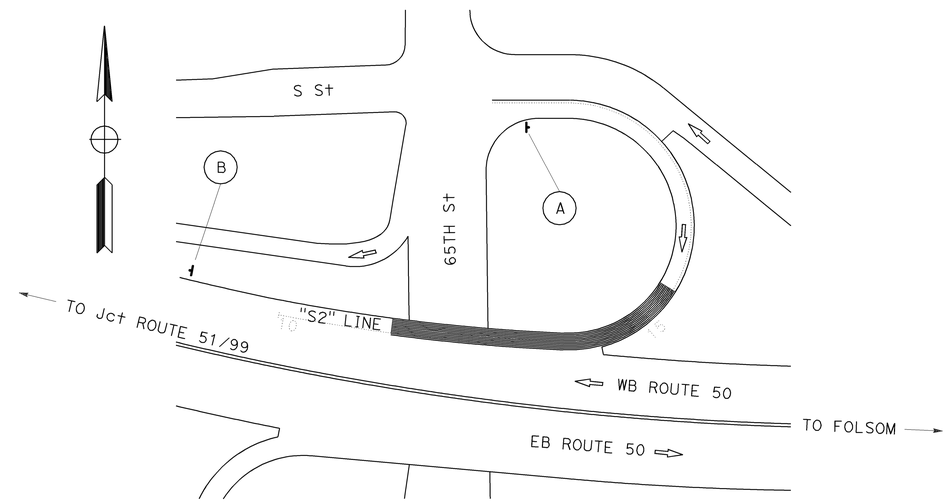
SIGN - SINGLE POST

SIGN - TWO POSTS

<CA> CALIFORNIA SIGN CODE



LOCATION 3



LOCATION 4

NOTE: THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

REVISED BY | DATE REVISED
CHUCK COOK | DEANN SPANGLER
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
JOSEPH W. HORTON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

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LAST REVISION 7-05-10 | DATE PLOTTED => 11-AUG-2010 | TIME PLOTTED => 13:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	8	13

REGISTERED CIVIL ENGINEER 7-5-10 DATE

7-5-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DEANN S. SPANGLER
No. 69207
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REMOVE PAVEMENT MARKER

LOCATION	PAVEMENT MARKER (EACH)
2	10
3	15
4	14
5	85
TOTAL	124

THERMOPLASTIC TRAFFIC STRIPE

LOCATION	4" THERMOPLASTIC TRAFFIC STRIPE
	DETAIL NUMBER
	27B (LF)
3	155
4	155
TOTAL	310

PAVEMENT MARKER (RETROFLECTIVE)

LOCATION	DETAIL NUMBER	TYPE G (EACH)	TYPE H (EACH)
2	25A		10
3	9,25A,36A	9	6
4	9,25A,36A	7	7
5	9,25A,36,36A,38	48	37
SUBTOTAL		64	60
TOTAL		124	

THERMOPLASTIC PAVEMENT MARKING

LOCATION	DESCRIPTION				
	LIMIT LINE (SQFT)	"CAR" (SQFT)	"POOL" (SQFT)	"LANE" (SQFT)	DIAMOND SYMBOL (SQFT)
3	18				
4	18				
5	24	17	46	48	33
SUBTOTAL	60	17	46	48	33
TOTAL	204				

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY | DATE REVISED
CHUCK COOK | DEANN SPANGLER
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
JOSEPH W. HORTON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

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LAST REVISION 7-05-10
DATE PLOTTED => 11-AUG-2010
TIME PLOTTED => 13:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	9	13

REGISTERED CIVIL ENGINEER DATE 7-5-10

7-5-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DEANN S. SPANGLER
No. 69207
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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ROADWAY QUANTITIES

LOCATION	CRACK TREATMENT	REMOVE ASPHALT CONCRETE SURFACING	THIN HIGH FRICTION SURFACE TREATMENT *	PREPARE CONCRETE BRIDGE DECK SURFACE
	LNMI	SQFT	SQYD	SQFT
LOCATION 1			2000	
LOCATION 2	0.1		728	
LOCATION 3		3582	713	3582
LOCATION 4		3168	665	3168
LOCATION 5			6628	
TOTAL	0.1	6750	10734	6750

* FOR LOCATION 5, QUANTITY ACCOUNTS FOR A SECOND LAYER OF THIN HIGH FRICTION SURFACE TREATMENT (HFST).

SUMMARY OF QUANTITIES

Q-1

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC

SUPERVISING ENGINEER: JOSEPH W. HORTON
CALCULATED-DESIGNED BY: DEANN SPANGLER
CHECKED BY: STEPHEN WRIGHT
REVISED BY
DATE REVISED

LAST REVISION 07-05-10
DATE PLOTTED => 11-AUG-2010
TIME PLOTTED => 13:53

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	10	13

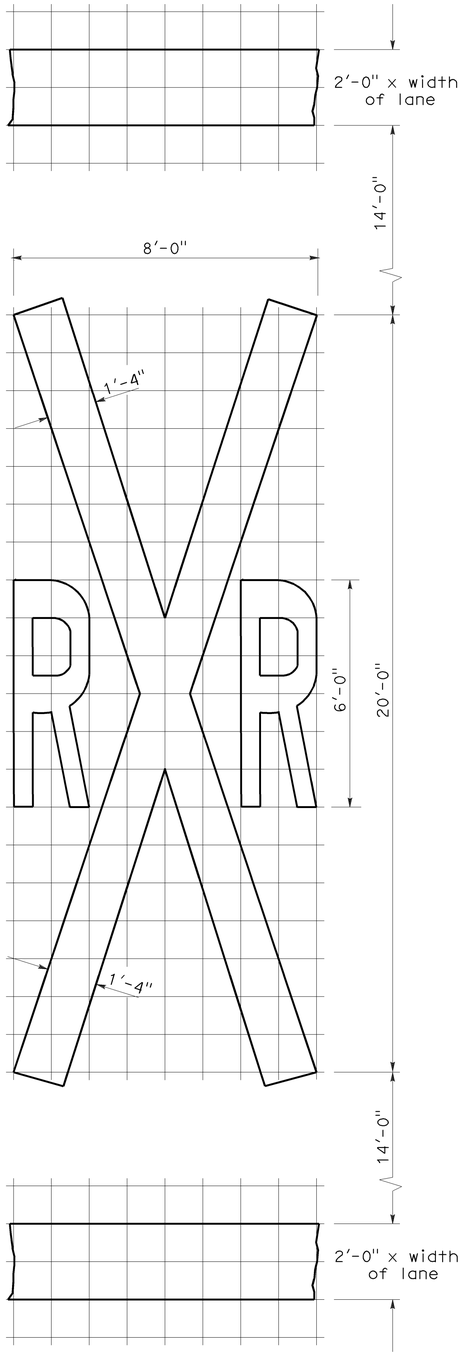
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Donald E. Howe
No. C46402
Exp. 3-31-09
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

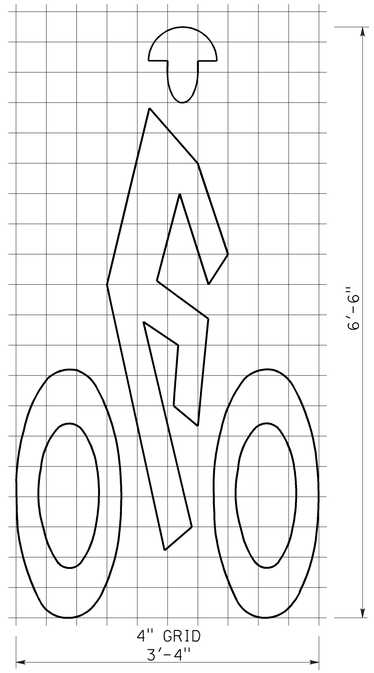
To accompany plans dated 7-5-10



1'-0" GRID
A=70 sq ft ✳

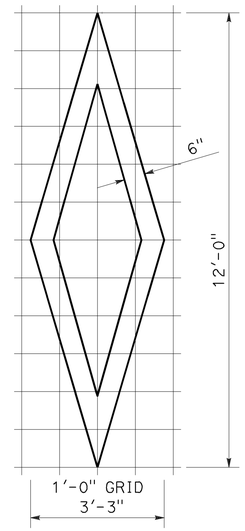
RAILROAD CROSSING SYMBOL

✳70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



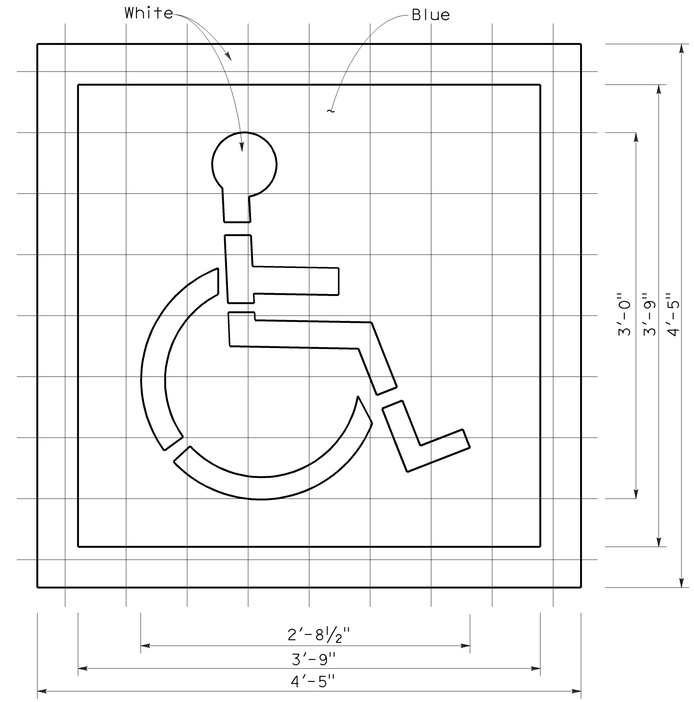
A=7 sq ft

BIKE LANE SYMBOL



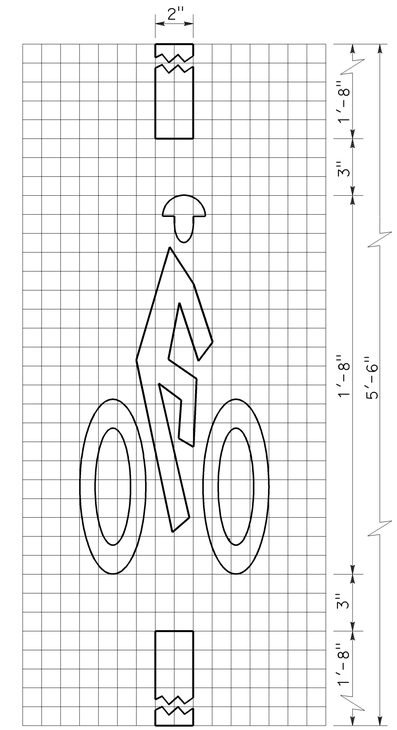
A=11 sq ft

DIAMOND SYMBOL



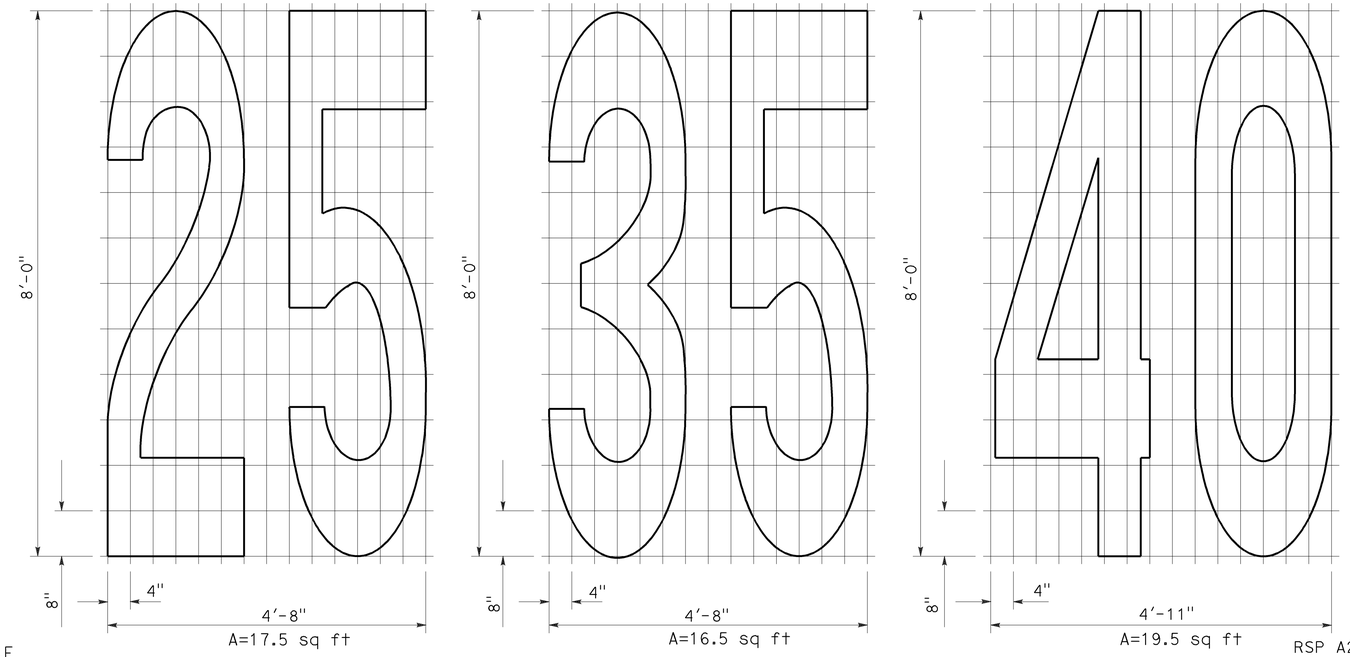
6" GRID
A (White) =9 sq ft
A (Blue) =14 sq ft

INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



1" GRID
10"
A=2 sq ft

BICYCLE LOOP DETECTOR SYMBOL



A=17.5 sq ft
A=16.5 sq ft
A=19.5 sq ft

NUMERALS

NOTE:

1. Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

5-27-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	11	13

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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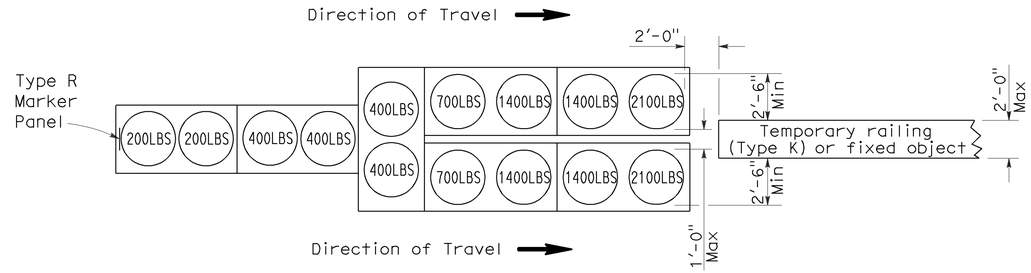
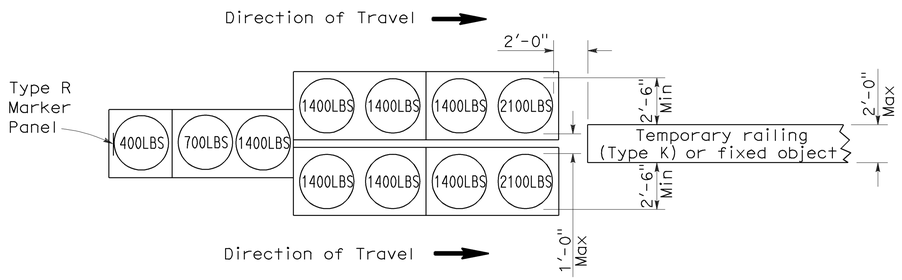
To accompany plans dated 7-5-10



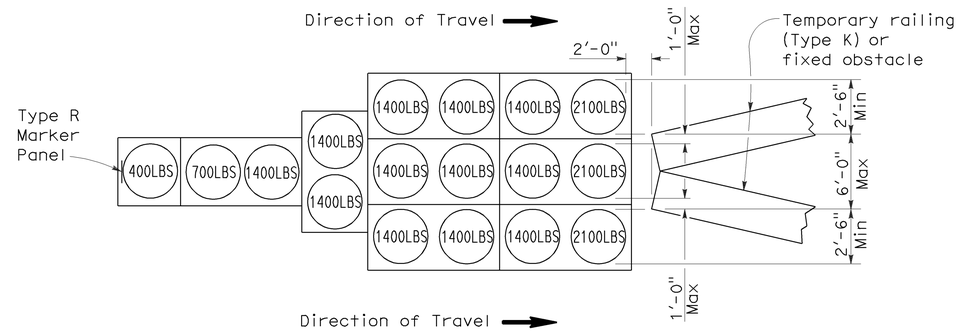
ARRAY 'TU14'

Approach speed 45 mph or more



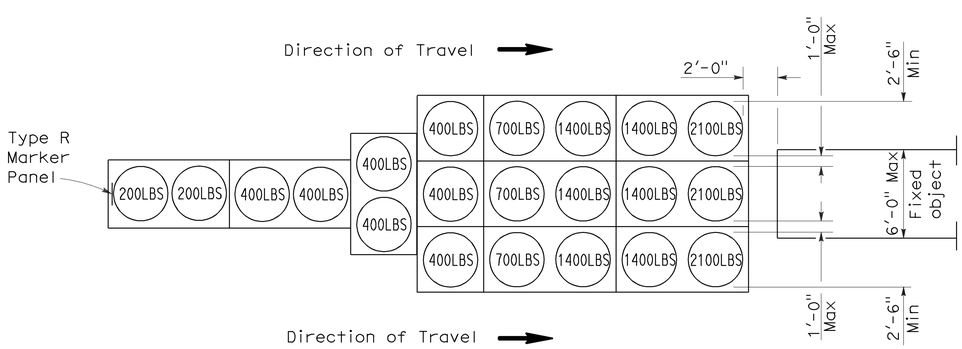
ARRAY 'TU11'

Approach speed less than 45 mph



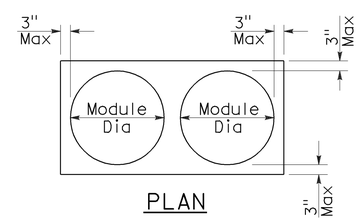
ARRAY 'TU17'

Approach speed less than 45 mph

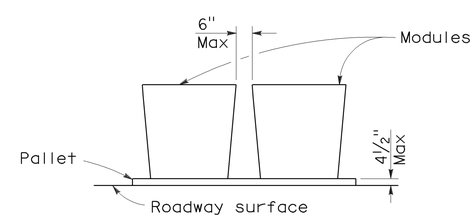


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	12	13

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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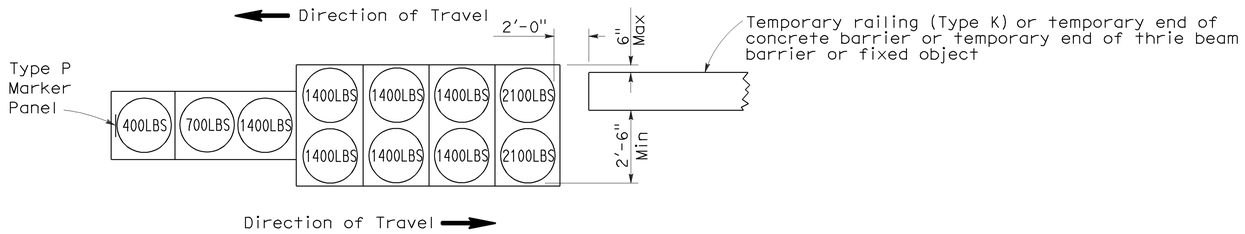
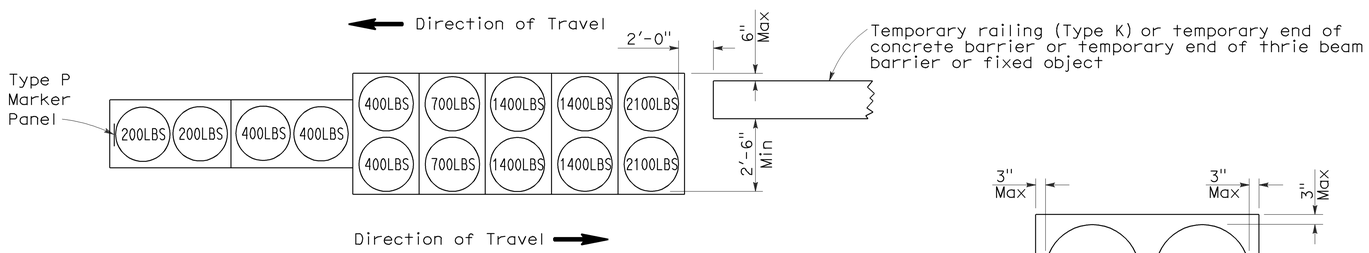
To accompany plans dated 7-5-10



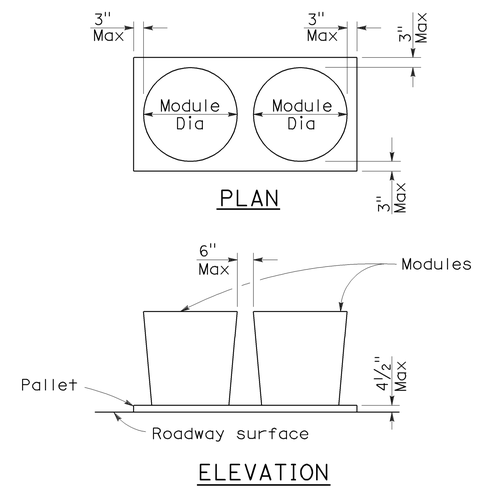
ARRAY 'TB11'

Approach speed less than 45 mph



ARRAY 'TB14'

Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev,Pla Sac	20,50,80	Var	13	13

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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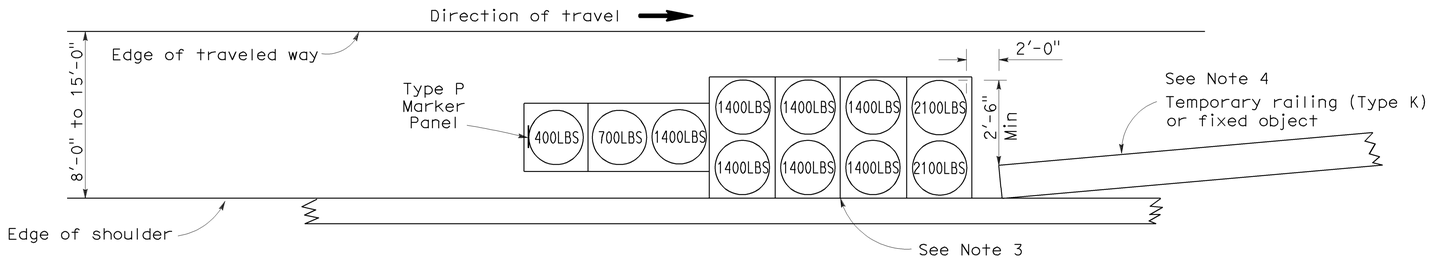
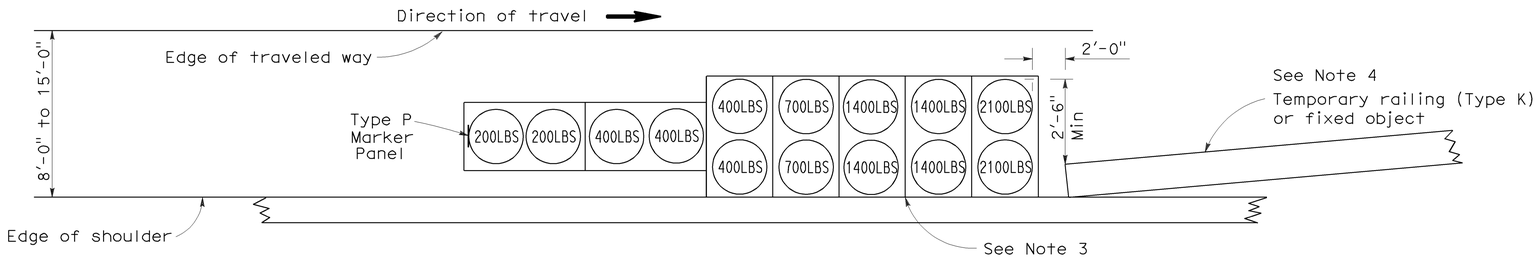
To accompany plans dated 7-5-10



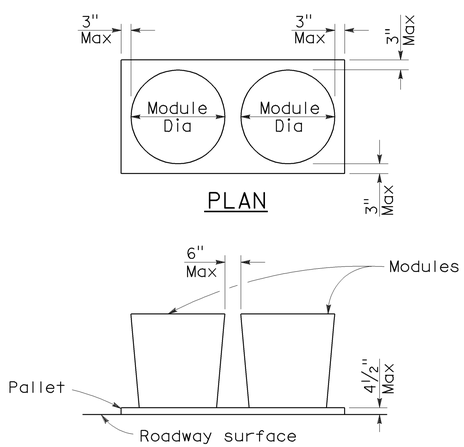
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
4. If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08